

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tsutae Shinoda, et al.

Application No.:

Group Art Unit:

Filed: March 24, 2004

Examiner:

For: FULL COLOR SURFACE DISCHARGE TYPE PLASMA DISPLAY DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☐ Copies of IDS citations.
- 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
- 1d. ☐ English language translation (complete or relevant portion(s)) attached to each non-English language publication.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. ☐ List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. ☐ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b):

(Check either Item 2a or 2b or 2c or 2d)

- 2a. ☐ Within three months of the filing date of a national application other than a Continued Prosecution Application under § 1.53(d);
- 2b. ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. ☒ Before the mailing of a first Office Action on the merits; or
- 2d. ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

3. ☐ This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)

- 3a. ☐ The §1.97(e) Statement in Item 5 below is applicable; OR
3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:
☐ enclosed.
☐ to be charged to Deposit Account No. 19-3935.

4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

- 4a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; AND
4b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:
☐ enclosed.
☐ to be charged to Deposit Account No. 19-3935.

5. ☐ Statement under § 1.97(e) (*applicable if Item 3a or Item 4a is checked*)

(Check either Item 5a or 5b)

- 5a. ☐ In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
5b. ☐ In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☒ This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).

(Check appropriate Items 6a and/or 6b)

- 6a. ☒ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. 09/654,894, filed on September 5, 2000, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).
6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. __, filed on __, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.

7. ☐ This is a continuation/divisional application under 37 CFR § 1.53(d) or a Request for Continued Examination under 37 CFR 1.114.

(Check either Item 7a or 7b)

- 7a. ☐ The Issue Fee has not been paid.
7b. ☐ A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A continuation/divisional application under 37 CFR § 1.53(d) or a Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.

8. ☐ This is a Supplemental Information Disclosure Statement.

(Check either Item 8a or 8b)

- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on _____. A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on _____.
8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR § 1.97 and 1.98, mailed _____.

9. ☐ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check appropriate Items 9a, 9b, 9c and/or 9d)

- 9a. ☐ satisfied because all non-English language publications were cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed.)
9b. ☐ set forth in the application.
9c. ☐ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
9d. ☐ enclosed as Attachment 1(e), hereto.

10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: March 24, 2004
1201 New York Ave., N.W., Suite 700
Washington, D.C. 20005
Telephone: (202) 434-1500
Facsimile: (202) 434-1501

By: 
H. J. Staas
Registration No. 22,010

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO.	APPLICATION NO.
		522.1919C4C	
		FIRST NAMED INVENTOR	
		Tsutae Shinoda, et al.	
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FILING DATE	GROUP ART UNIT
		March 24, 2004	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	3,886,403	05/1975	Owaki et al.			
	AB	3,906,290	09/1975	Kurahashi et al.			
	AC	3,972,040	07/1976	Hilsum et al.			
	AD	4,005,402	01/1977	Amano			
	AE	4,249,105	02/1981	Kamagaya et al.			
	AF	4,368,465	01/1983	Hirakawa et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	AG	0 157 248	10/1985	European Patent Office				
	AH	0 366 117	05/1990	European Patent Office				
	AI	0 436 416	07/1991	European Patent Office				
	AJ	2 662 534	11/1991	France				
	AK	49-115242	11/1974	Japan				
	AL	50-135979	10/1975	Japan				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

			TRANSLATION YES NO	
	AM	Shinoda et al., "Low-Voltage Operated AC Plasma-Display Panels," IEEE TRANSACTIONS ON ELECTRON DEVICES, Vol. ED-26, No. 8, August 1979, pages 1163-67.		

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	BA	4,499,460	02/1985	Pearson et al.			
	BB	4,516,053	05/1985	Amano			
	BC	4,575,716	03/1986	Holz et al.			
	BD	4,622,549	11/1986	Criscimagna et al.			
	BE	4,638,218	01/1987	Shinoda et al.			
	BF	4,716,341	12/1987	Oida et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	BG	51-032051	09/1976	Japan			
	BH	56-094395	07/1981	Japan			
	BI	57-078751	05/1982	Japan			
	BJ	61-039341	02/1986	Japan			
	BK	63-060495	11/1988	Japan			
	BL	63-151997	06/1988	Japan			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	BM	Gay et al., "Color Plasma Display Panels with Simplified Structure and Drive," SID 88 DIGEST, SID International Symposium-Digest of Technical Papers, May 24-26, 1988, Anaheim, CA pages 157-59.
	BN	Rockmongathan, T.N., "A generalized Addressing Technique for RMS Responding Matrix LCDS," 1988 INTERNATIONAL DISPLAY RESEARCH CONFERENCE, pages 80-85.
	BO	Uchiike et al., "An 86-lpi High-Resolution Full-Color Surface Discharge ac Plasma Display Panel," PROCEEDINGS OF THE SID, Vol. 31, No. 4, 1990, New York, NY, pages 361-65.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	CA	4,737,687	04/1988	Shinoda et al.			
	CB	4,814,758	03/1989	Park			
	CC	5,030,888	07/1991	Salavin et al.			
	CD	5,086,297	02/1992	Miyake et al.			
	CE	5,182,489	01/1993	Sano			
	CF	5,661,500	08/1997	Shinoda et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	CG	01-304638	12/1989	Japan				
	CH	01-313837	12/1989	Japan				
	CI	02-219092	08/1990	Japan				
	CJ	02-291597	12/1990	Japan				
	CK	03-078937	04/1991	Japan				
	CL	3-77238	04/1991	Japan				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	CM	Yoshikawa et al., "A Full Color AC Plasma Display with 256 Gray Scale," JAPAN DISPLAY '92, Article S16-2, pages 605-08.
	CN	Holz, G. E., "Pulsed Gas Discharged Display with Memory," Burroughs Corporation, ECD, Plainfield, N.J. (2 pages).
	CO	Makino et al., "Improvement of Video Image Quality in AC-Plasma Display Panels by Suppressing the Unfavorable Coloration Effect with Sufficient Gray Shades Capability," ASIA DISPLAY '95, Proceedings of the Fifteenth International Display Research Conference, Oct. 16-18, 1995, Hamamatsu, Japan, Article S19-3, pages 381-84.

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	DA	5,674,553	10/1997	Shinoda et al.			
	DB	5,541,618	07/1996	Shinoda			
	DC	5,724,054	03/1998	Shinoda			
	DD	4,833,463	05/1989	Dick et al.			
	DE	4,249,105	02/1981	Kamegaya et al.			
	DF	5,182,489	01/1993	Sano			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	DG	1-304638	12/1989	Japan			
	DH	3-101031	04/1991	Japan			
	DI	55-5663	02/1980	Japan			
	DJ	2-148645	06/1990	Japan			
	DK	3-269933	12/1991	Japan			
	DL	1-304638	12/1989	Japan			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	DM	Osamu, T., "Innovation and Commercial Viability of Large Area Plasma Display through Fujitsu's Continued R&D Activities," IDW '96, Proceedings of the Third International Display Workshops, Vol. 2, Nov. 27-29, 1996, Kobe, Japan, pages 7-10.
	DN	Kubo, Akira, et al., "Full Color Surface-Discharge ac Plasma Display Panels", ITEJ, Technical Report, Vol. 12, No. 49, pages 49-54, EP '88-57, 10 '88-93 (November 1988).
	DO	

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	EA	4,814,758	03/1989	Park			
	EB	5,030,888	07/1991	Salavin et al.			
	EC	4,162,427	07/1979	Kamegaya et al.			
	ED	5,396,149	03/1995	Kwan			
	EE	5,272,472	12/1993	Buzak			
	EF	5,212,472	05/1993	Takahashi et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	EG	2-226699	09/1990	Japan				
	EH	62-51133	03/1987	Japan				
	EI	62-180932	08/1987	Japan				
	EJ	1-311540	12/1989	Japan				
	EK	5908240	06/1984	Japan				
	EL	62195829	08/1987	Japan				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	EM	
	EN	
	EO	

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	FA	4,170,772	10/1979	Bly			
	FB	6,097,357	08/2000	Shinoda et al.			
	FC	4,325,002	04/1982	Kobale et al.			
	FD	5,107,182	04/1992	Sano et al.			
	FE	5,136,207	08/1992	Miyake et al.			
	FF	5,317,334	05/1994	Sano			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	FG	02288047	11/1990	Japan				
	FH	02297837	12/1990	Japan				
	FI	05109363	04/1993	Japan				
	FJ							
	FK							
	FL							

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	GA	4,692,662	09/1987	Wada et al.			
	GB	5,066,890	11/1991	Salavin et al.			
	GC	5,828,356	10/1998	Stoller			
	GD	4,725,255	02/1998	Shinada et al.			
	GE						
	GF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES	NO
	GG							
	GH							
	GI							
	GJ							
	GK							
	GL							

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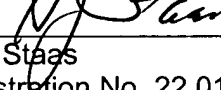
(Check appropriate Items 2a, 2b, 2c and/or 2d)
 - 2a. ☐ satisfied because all non-English language publications were cited on the enclosed "English-language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, pp. 600-100 to 600-101, Rev. 1, Feb. 2000.)
 - 2b. ☐ set forth in the application.

- 2c. ☒ satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
- 2d. ☐ enclosed as Attachment 1(e), hereto.
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Respectfully submitted,

STAAS & HALSEY LLP

Dated: March 24, 2004
1201 New York Ave., N.W., Suite 700
Washington, D.C. 20005
Telephone: (202) 434-1500
Facsimile: (202) 434-1501

By: 
H. J. Staas
Registration No. 22,010

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>	ATTORNEY DOCKET NO. 522.1919C4C	APPLICATION NO.
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*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	5,663,741	09/1997	Kanazawa			
	AB	RE37,444E	11/2001	Kanazawa			
	AC	6,043,604	03/2000	Horiuchi et al.			
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	AG	3-219286	09/1991	Japan			abs	
	AH							
	AI							
	AJ							
	AK							
	AL							

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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	AN			
	AO			

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